

WHAT IS CLAIMED IS:

1. An information transmitting method whereby a video packet comprising image data encoded in a frame or a field, image data encoded between forward directional frames or fields, and image data encoded between bidirectional frames or fields is transmitted as an encrypted transport stream, wherein

a first marker packet is added just before a transport stream packet including said intraframe or intrafield encoded image and the resultant packet is transmitted as said transport stream.

2. A method according to claim 1, wherein a second marker packet is transmitted just after the transport stream packet including said intraframe or intrafield encoded image.

3. An information processing method whereby a stream of a video packet comprising image data encoded in a frame or a field, image data encoded between forward directional frames or fields, and image data encoded between bidirectional frames or fields is received and recorded into a storage device, comprising the steps of:

detecting a first marker packet which is sent just before a transport packet stream including said intraframe or intrafield encoded image from said received stream; and

identifying said transport stream packet including said intraframe or intrafield encoded image from said first marker packet.

4. A method according to claim 3, wherein a second marker packet which is sent just after said transport stream packet including said intraframe or intrafield encoded image is detected.

5. A method according to claim 3, wherein said received stream has been encrypted.

6. A method according to claim 3, wherein recording position information at the head of said intraframe or intrafield encoded image data in said storage device is stored on the basis of a result of said identification.

7. A method according to claim 6, wherein upon reproduction, a recording unit including said intraframe or intrafield encoded image data is reproduced from said storage device on the basis of the recording position information at the head of said intraframe or intrafield encoded image data, thereby performing a variable speed reproduction.

8. An information recording and reproducing method whereby a stream of a video packet comprising image data encoded in a frame or a field, image data encoded between forward directional frames or fields, and image data encoded between bidirectional frames or fields is recorded into a

storage device on a unit basis of a predetermined number of recording units and said stream is reproduced from said storage device, comprising the steps of:

5 detecting a first marker packet which is sent just before a transport packet including said intraframe or intrafield encoded image from said received stream;

10 identifying the transport packet of said intraframe or intrafield encoded image data from said first marker packet;

 adding information showing said intraframe or intrafield encoded image data on the basis of a result of said identification;

15 counting said added information showing said intraframe or intrafield encoded image data every recording unit into said storage device; and

 adding a result of said counting every recording unit into said storage device.

20 9. A method according to claim 8, wherein said stream to be recorded has been encrypted.

10. A method according to claim 8, wherein a second marker packet which is transmitted just after the transport packet including said
25 intraframe or intrafield encoded image is detected.

11. A method according to claim 8, wherein upon reproduction, the recording unit including

said intraframe or intrafield encoded image data is reproduced from said storage device on the basis of a result of said counting added every said recording unit and a variable speed reproduction is performed.

12. An information processing apparatus in which a stream of a video packet comprising image data encoded in a frame or a field, image data encoded between forward directional frames or fields, and image data encoded between bidirectional frames or fields is received and recorded into a storage device, comprising:

means for detecting a first marker packet which is transmitted just before a transport stream packet including said intraframe or intrafield encoded image from said received stream; and

means for identifying said transport stream packet including said intraframe or intrafield encoded image from said first marker packet.

13. An apparatus according to claim 12, further having means for detecting a second marker packet which is transmitted just after the transport stream packet including said intraframe or intrafield encoded image.

14. An apparatus according to claim 12, wherein said received stream has been encrypted.

15. An apparatus according to claim 12,
further having holding means for holding recording
position information at the head of said intraframe
or intrafield encoded image data in said storage
5 device on the basis of a result of said
identification.

16. An apparatus according to claim 15,
wherein upon reproduction, a recording unit
including said intraframe or intrafield encoded
10 image data is reproduced from said storage device
on the basis of said recording position information
at the head of said intraframe or intrafield
encoded image data, and a variable speed
reproduction is performed.

17. An information recording and reproducing
apparatus in which a stream of a video packet
comprising image data encoded in a frame or a field,
image data encoded between forward directional
frames or fields, and image data encoded between
15 bidirectional frames or fields is recorded into a
storage device on a unit basis of a predetermined
number of recording units and said stream is
reproduced from said storage device, comprising:

20 means for detecting a first marker packet
25 which is transmitted just before a transport packet
including said intraframe or intrafield encoded
image from said received stream;

means for identifying the transport packet of said intraframe or intrafield encoded image data from said first marker packet;

means for adding information indicative of said intraframe or intrafield encoded image data to said transport packet on the basis of a result of said identification;

means for counting the information showing said added intraframe or intrafield encoded image data every recording unit into said storage device; and

means for adding a result of said counting every recording unit into said storage device.

18. An apparatus according to claim 17, wherein said stream to be recorded has been encrypted.

19. An apparatus according to claim 17, further having means for detecting a second marker packet which is transmitted just after the transport packet including said intraframe or intrafield encoded image.

20. An apparatus according to claim 17, wherein upon reproduction, the recording unit including said intraframe or intrafield encoded image data is reproduced from said storage device on the basis of said count result added every said recording unit, and a variable speed reproduction

is executed.

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